

## REFERENCE

### 2563-, 2564-, AND 2568-TYPE TELEPHONE SETS

#### 1. GENERAL

**1.01** This section provides identification and installation information for 2563HB, 2564HL, and 2568HAA telephone sets previously contained in Sections 502-525-123, 502-525-124, and 502-532-121 which are hereby canceled.



**Fig. 1—2563HB Telephone Set**

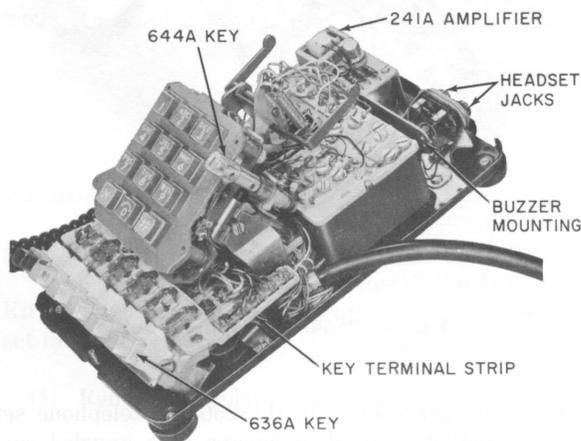
**1.02** The 2563-, 2564-, and 2568-type telephone sets are desk-type, 6-button key telephone sets equipped with 12-button TOUCH-TONE® dials. These sets are available in all standard colors. Refer to Division 500 for promoted and nonpromoted color selection.

#### 2. IDENTIFICATION

##### *2563HB Telephone Set*

**2.01** The 2563HB telephone set (Fig. 1 and 2) is equipped with jacks for a 52- or 53-type

headset and a 644A turn key to switch between handset and headset. The turn key also provides a flash function for operator recall. A 241A Series II amplifier improves headset transmitter transmission. The amplifier, jacks, ringer, and buzzer (if provided) are mounted on a common bracket.



**Fig. 2—2563HB Telephone Set, Interior**

**2.02** The 2563HB telephone set is factory-wired for use with 1A1 or 1A2 key telephone systems. This set can be modified for use with 1A key systems. (See appropriate Service section.)

**2.03** The 2563HB telephone set is not intended for use with speakerphone.

**2.04** Ringer volume in the 2563HB telephone set is adjusted from LOUD through OFF by adjusting the lever extending through the side of the set.

##### *2564HL Telephone Set*

**2.05** The 2564HL telephone set (Fig. 3) is intended for use with 1A1 and 1A2 key telephone

**SECTION 502-503-103**

systems. Mounting cord conductors necessary for exclusion, speakerphone, or 1A KTS conversion are not provided. To convert for use with 1A KTS service, a D50N cord must be used to replace the D30D and the set must be rewired (see appropriate Service section).



**Fig. 3—2564HL Telephone Set**

**2.06** Ringer volume in the 2564HL telephone set may be varied by means of a knurled cam projecting through the base. To silence the ringer; remove housing, bend ringer stop tab, and move volume control cam to fifth position.

**2568HAA Telephone Set**

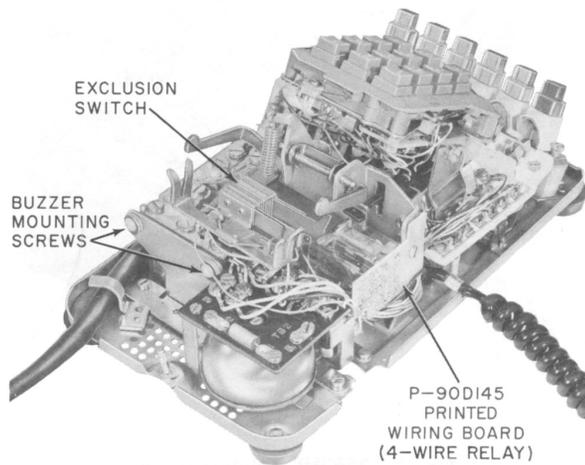
**2.07** The 2568HAA telephone set (Fig. 4 and 5) is intended for use with 2- or 4-wire line circuits and 1A1, 1A2, or 6A KTS. An MA4 relay is used to switch the receiver circuit from the network to the RR and RT leads for 4-wire operation.

**2.08** This set is also wired for use with 3-type speakerphone. When using speakerphone on 4-wire lines, a J53041DL1 speakerphone control unit must be used.

**2.09** An exclusion switch, for use on either 2- or 4-wire lines, is provided with the 2568HAA telephone set.



**Fig. 4—2568HAA Telephone Set**



**Fig. 5—2568HAA Telephone Set, Interior**

**2.10** Ringer volume in the 2568HAA telephone set is adjustable from LOUD through OFF by adjusting the lever extending through the side of the set.

**Key**

**2.11** The 636A key (Fig. 6 and 7) used in these sets provides hold and five line pickups. The last three pickup keys may be converted to common or private line signaling.

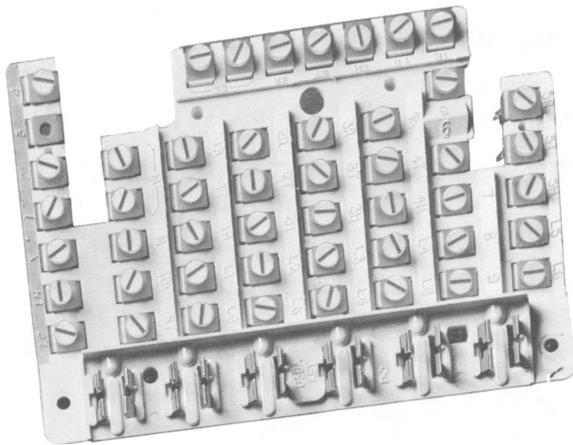


Fig. 6—636A Key, Top View

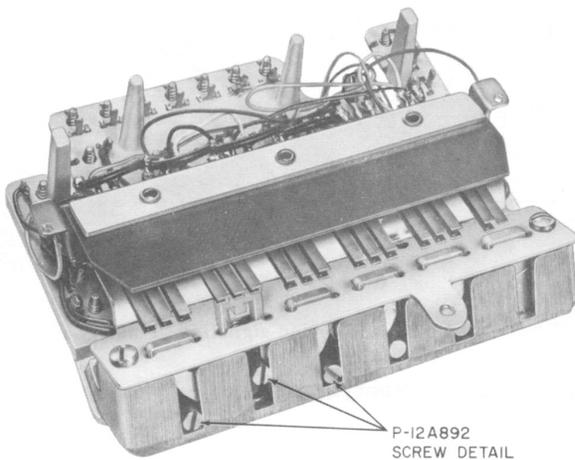


Fig. 7—636A Key, Bottom View

**2.12** Pickup buttons are illuminated with 51A lamps, the red hold button is arranged for, but not equipped with a lamp.

### 3. INSTALLATION

#### *Key*

**3.01** The 636A key has a terminal arrangement to accommodate matching cord terminal wafers, so that any line connected to the set can be interchanged readily to appear on any of the five line pickup keys.

**3.02** Unused buttons may be blocked with a P-12A858 blocking ring. Insert as shown in Fig. 8.

#### *Exclusion Switch*

**3.03** When exclusion is required on the 2563HB or 2564HL telephone set install the D-179935 Kit of Parts as follows (mounting cord in 2564HL set must be replaced with D50N cord):

- (1) Remove faceplate and housing.
- (2) Insert the P-344859 bracket into the two T slots precut in the line switch bracket (Fig. 9).
- (3) Tighten the P-180922 screw which holds the bracket in the T slots.
- (4) Mount the P-340560 spring and exclusion switch on the bracket (Fig. 9).
- (5) Remove the P-13E953 plunger from the left side of the telephone set housing and replace it with the P-14A613 exclusion plunger.

**TABLE A**  
**2563HB, 2564HL, AND 2568HAA TELEPHONE SET COMPONENTS**

SET CODE NO.*	DIAL NO.*	MTG CORD*	HANDSET*	KEY	NETWORK	RINGER	JACK ASSEMBLY	AMPLIFIER†	HEADSET KEY	HOUSING AND PLUNGER ASSEMBLY
2563HB	35A3A	D50N	G3AR	636A	425K	N1A	P-26E645	241A Series II	644A	P-86K5- -
2564HL		D30D				H1A				P-89B1- -
2568HAA	35C3A	D50N				N1A				P-88E5- -

\* Add appropriate color suffix.

† Early production sets equipped with Series I amplifier must be replaced with Series II amplifier if exclusion switch is installed.

**TABLE B**  
**PIECE PART INFORMATION**

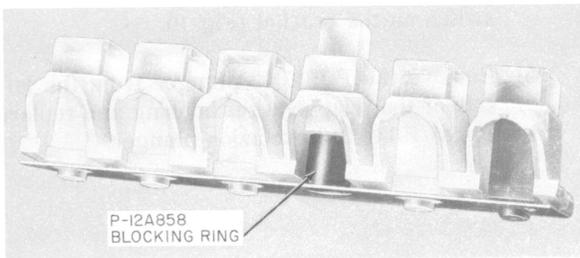
TELEPHONE SET	CARD RETAINER*	DESIGNATION CARD	BUTTON AND COLLAR ASSEMBLY	EXCLUSION SWITCH	FACEPLATE†	POLARITY GUARD‡
2563HB	P-25E803 and P-269561	E-4227	P-25E120	D-179935 Kit of Parts	P-87J6- -	P-90D052
2564HL				D-179935 Kit of Parts§	P-86D7- -	
2568HAA				P-29E254 Switch Assembly		

\* Replaces P-25E785 (MD) card retainer, both P-25E803 and P-269561 are required.

† Faceplates are furnished with sets in coordinated colors. Matching color faceplates may be ordered separately by adding the color suffix to the faceplate part number.

‡ Polarity guard should be installed only when specified by local instructions for end-to-end signaling. Polarity guard is not adaptable to present design of 2563HB telephone set.

§ If exclusion is added, mounting cord must be replaced with D50N cord.



**Fig. 8—P-12A858 Blocking Ring, Installed**



*Replace the telephone set housing before making any test. The housing serves to orient the exclusion switch and tilts the spring pile-up so that it will not short to the bracket.*

**Buzzers**

**3.04** A KS-8109L2 or equivalent buzzer may be mounted to the ringer bracket of the 2564HL and 2568HAA telephone sets using hardware provided (Fig. 10). This buzzer may also be used with the 2563HB telephone set, mounting it on the jack and amplifier mounting bracket (Fig. 2) and securing it with two insulating screws and washers.

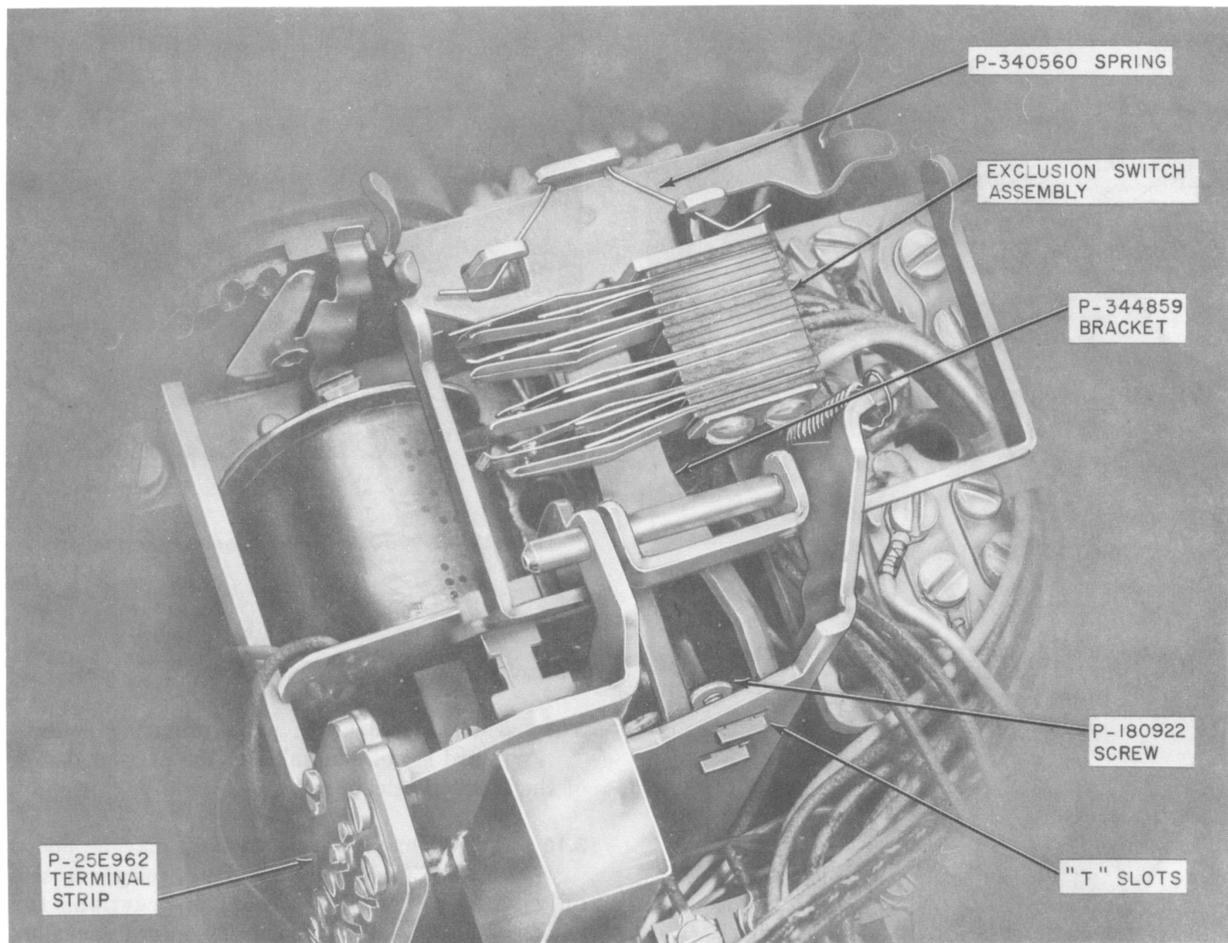


Fig. 9—D-179935 Kit of Parts and Auxiliary Terminal Strip, Installed

**3.05** A second KS-8109 type buzzer can be installed on a 70-type bracket (ordered separately) which mounts on top of the ringer coil in nonexclusion equipped 2564HL telephone sets.

**Note:** In redesigned bracket, lead dressing posts are omitted, therefore extra care must be taken to dress the spade-tipped lead on the F terminal of the 425-type network to prevent contact with buzzer case.

**3.06** If desired, the N1A ringer in the 2564HL telephone set may be replaced with a 7-type buzzer and a 152A capacitor mounted on a 44B bracket (order separately) (Fig. 11).

**3.07** A KS-20419 buzzer (10 volt AC only) may be mounted in any convenient location with a screw which must be provided.

#### *Auxiliary Terminal Strip*

**3.08** A P-25E962 terminal strip (ordered separately) may be installed in the 2563HB telephone set as follows:

- (1) Remove faceplate and housing.
- (2) Secure the terminal strip to the line switch assembly bracket, as shown in Fig. 9, using two self-tapping screws.
- (3) Replace housing and faceplate.

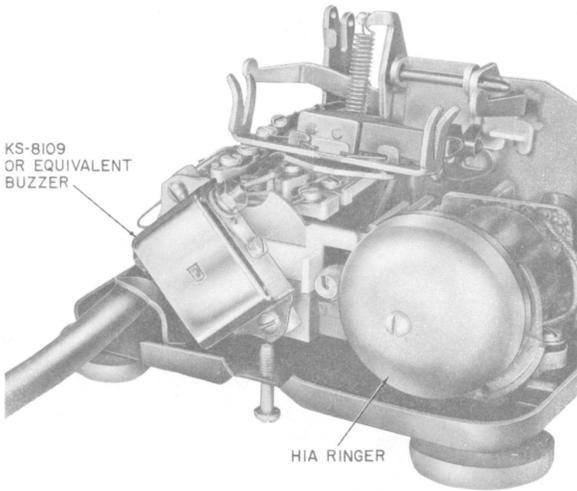


Fig. 10—KS-8109 Buzzer Mounting

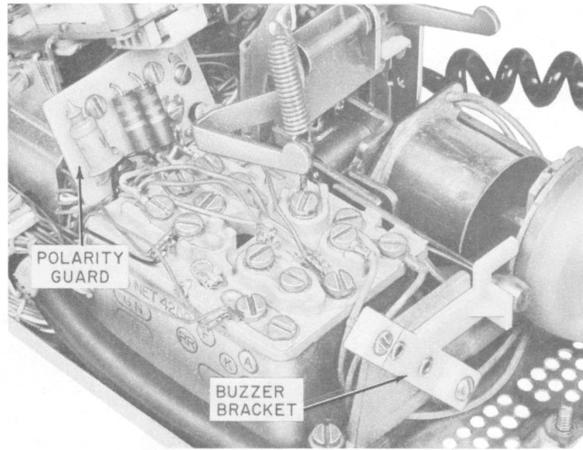


Fig. 12—P-90D052 Guard Assembly, Installed

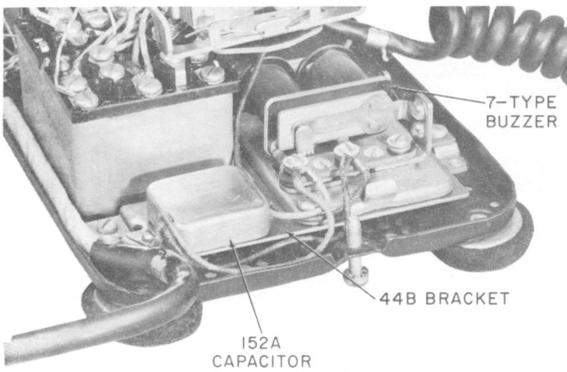


Fig. 11—Mounting of 7-Type Buzzer and 152A Capacitor on 44B Bracket

### *Polarity Guard*

**3.09** The optional kit of parts providing polarity guard is not adaptable to the present design of the 2563HB telephone set.

**3.10** A P-90D052 guard assembly may be added to the 2564HL and 2568HAA telephone sets only when specified by local instructions for end-to-end signaling. Mount the guard assembly to the right dial mounting bracket as shown in Fig. 12.